Heygates Flour Mills Product Specification



Product Name	Customer Name	Cust Ref
K1 - CHEATA	Bradleys Foods	HAR150

Descriptio n of Flour

A very fine white flour that has tendency to clump together The flour is heat treated and is designed for use in cakes, sponges and muffins.

2018 2019 Harvest Flour Analysis Range Method Method Target **HEY 014** Protein Test % 8.0 7.0 9.0 Moisture Test % 11.0 8.0 13.5 **HEY 014** L* 90.5 91 91 **HEY 25** *The product analysis data is obtained using historical data and could be subject to change at harvest

Shelf Life	Stat Adds = 0	Calcium Carbonate (0.23	35%); Iron (0.00165%); Ni	cotinamide (0.0016%); Thiamine	e (0.00024%)
Storage	The flour should be sto allow good air circulation	•	•	_	storage area should
FiR Ingredient Declaratio n	Wheat Flour (WHEAT flou Nicotinamide (Vit B3), This	•	` ''	Prepared By Signature	Jill Buckingham
"					Rowcaylan
Issue Date	20-Jun-19	Spec ID Revision	K1 v014	Res Ref	0

HQ Addres	ss			Mill of M	lanufacture Address
Add 1	Heygates Ltd			Add 1	Heygates Ltd
Add 1 Add 2	Bugbrooke Flour M	Aille		Add 1 Add 2	Bugbrooke Flour Mills
Add 3		11115			
	Bugbrooke			Add 3	Bugbrooke
Add 4	Northants NN7 3Q	Н		Add 4	Northants NN7 3QH
Tel No.	01604 830381			Tel No.	01604 830 381
Fax No.	01604 831865			Fax No.	01604 831865
Contact Na	ames			Contact	Tel No.s
Mill Manage	er Mr Paul Thomasor	, 1			01604 830 381
		ı			
	chi Laurie Pearson				01604 830381
	na David Bailey				01604 830381
Out of Hrs (Cd 24hr Security				01604 830381
3rd Party	Accreditation				
BRC	Yes	RD	C Exp Date	May 19	
DRC	165	אט	С Ехр Баге	May 19	
BRC Scope			heat treated floo	ur for human co	nsumption produced and
	packed at the Bug	brooke site.			
Food Safe	ty Controls - Critic	al Control Po	oints		
Final Sieve S	Size		1mm	Frequen	cy of Inspection Weekly
					-, or,,,
Frequency of	of overtail Checks				
	or overtail Checks	Eve	ery batch	The flour will	be free from foreign bodies
					<u> </u>
Blow Line M	1etal Detection	Fe	1.5mm Nfe	1.5mm	SS 3mm
	1etal Detection	Fe			<u> </u>
Blow Line M Bag Metal D	Metal Detection Detection	Fe	1.5mm Nfe	1.5mm	SS 3mm
Blow Line M	Metal Detection Detection	Fe Fe	1.5mm Nfe	1.5mm 4.0mm	SS 3mm SS 4.0mm
Blow Line M Bag Metal D Packaging Size of bag	Metal Detection Detection 16Kg	Fe Fe A	1.5mm Nfe 4.0mm Nfe 320x135x720	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration
Blow Line M Bag Metal D Packaging	Metal Detection Detection 16Kg	Fe Fe	1.5mm Nfe 4.0mm Nfe	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration
Blow Line M Bag Metal D Packaging Size of bag	Metal Detection Detection 16Kg	Fe Fe A	1.5mm Nfe 4.0mm Nfe 320x135x720	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration
Blow Line M Bag Metal D Packaging Size of bag	Metal Detection Detection 16Kg Paper sack	Fe Fe A	1.5mm Nfe 4.0mm Nfe 320x135x720	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration ayer 5
Blow Line M Bag Metal D Packaging Size of bag Primary Pac	Metal Detection Detection 16Kg Paper sack	Fe Fe A	1.5mm Nfe 4.0mm Nfe 320x135x720	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration ayer 5
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F	Metal Detection Detection 16Kg Cka Paper sack Packaging	Fe F	1.5mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration ayer 5 S 13 Mean Figs from industry survey
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F	Metal Detection Detection 1 16Kg Cka Paper sack Packaging	Fe F	1.5mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply	1.5mm 4.0mm	SS 3mm SS 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F	16Kg 16Kg Paper sack Packaging Digical limits al Viable Count	Fe F	1.5mm Nfe 4.0mm Nfe 20x135x720 2x80g Ply industry survey 749 CFU/g Presum	1.5mm 4.0mm I No. per la No. layer	SS 3mm SS 4.0mm Pallet Configuration ayer 5 S 13 Mean Figs from industry survey
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo	16Kg 16Kg Paper sack Packaging Decided limits Final Viable Count Founds	Fe F	1.5mm Nfe 4.0mm Nfe 320x135x720 2x80g Ply industry survey 749 CFU/g Presum 012 CFU/g Listeria	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count)	SS 3mm SS 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mc Presumptive	16Kg 16Kg Paper sack Packaging Digical limits al Viable Count	Fe F	1.5mm Nfe 4.0mm Nfe 20x135x720 2x80g Ply industry survey 749 CFU/g Presum	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella	Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive	Packaging Detection 16Kg Paper sack Packaging Detection Packaging Detection It is a like the count oulds a coliforms MPN	Fe F	1.5mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply industry survey 749 CFU/g 012 CFU/g 1.41 MPN Salmon	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella	Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive	Internal Detection Detection Internal Detection Detection Internal Detection Detection Internal Detection Detection Detection Internal Detection Detecti	Fe F	industry survey 749 CFU/g 1.2 CFU/g 1.41 MPN 1.4	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The pr	SS 3mm SS 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mc Presumptive	16Kg 16Kg 16Kg Paper sack Packaging Digical limits I viable Count I viable C	Fe F	industry survey 749 CFU/g 1.2 CFU/g 1.41 MPN 1.4	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The pr	SS 3mm SS 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive Presumptive	16Kg 16Kg 16Kg Paper sack Packaging Digical limits I viable Count I viable C	Fe F	industry survey 220x135x720 2x80g Ply industry survey 249 CFU/g 012 CFU/g 1.41 MPN 0.11 MPN Frequer ow risk microbiologic i.e. cooking bef	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The pre- fore final consum	Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through inption.
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive Presumptive	Tetal Detection Detection 16Kg 16Kg Cka Paper sack Packaging Degical limits Cal Viable Count Coulds Ce Coliforms MPN Ce Escherichia coli MPN We consider the pa validated heat tr	Fe F	1.5mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply 1.41 MPN Salmon 1.41 MPN Frequer 2x80g Nfe 2x80g Ply All whee	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The prefore final consum	SS 3mm SS 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive Presumptive	16Kg 16Kg 16Kg 16Kg 18 Paper sack Packaging 18 Viable Count oulds 19 Coulds 19 Count coulds 10 Count coulds 10 Count coulds 11 Viable Count coulds 12 Count coulds 13 Viable Count coulds 14 Count coulds 15 Count coulds 16 Count coulds 17 Pesticide Residence 17 Pesticide Residence 18 Viable Count coulds 18 Count coulds 19 Count count coulds 19 Count count coulds 10 Count c	Fe F	1.5mm Nfe 4.0mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply 2x80g Ply 1x1 MPN Salmon 0.11 MPN Frequer 2x80g Negrous Salmon 0.11 MPN Frequer All whee Frequer	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The pre- fore final consum- at and wheat de- ency of Test	SS 3mm 4.0mm Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through inption. erivatives meet current EU legislation
Blow Line M Bag Metal D Packaging Size of bag Primary Pac Secondary F Microbiolo Aerobic Tota Yeasts & Mo Presumptive Presumptive	16Kg 16Kg 16Kg 1cka Paper sack Packaging 1 Viable Count oulds 1 Count oulds 2 Coliforms MPN 2 Escherichia coli MPN 2 Escherichia coli MPN 3 Validated heat tr	Fe F	1.5mm Nfe 4.0mm Nfe 4.0mm Nfe 220x135x720 2x80g Ply 2x80g Ply 1x1 MPN Salmon 0.11 MPN Frequer 2x80g Negrous Salmon 0.11 MPN Frequer All whee Frequer	1.5mm 4.0mm No. per la No. layer ptive Bacillus ce spp (count) ella ncy of tests ogically. The proof final consumer at and wheat decency of Test y at Harvest the	Pallet Configuration ayer 5 s 13 Mean Figs from industry survey reus 3.79 <10 Abs in 25g Post harvest oduct should pass through inption.

Food Allergen Information				Jan-13
The following list of known allergens	is based or	n the statute	ory instru	ment 2008: No.1188. the Food labelling (Declaration of
				Q1: Is the allergen declared on the packaging label
	Q1	Q2	Q3	O2. To this all among one divide the agency and divide of all the
Cereals containing gluten	YES	YES	N/A	Q2: Is this allergen used within the same production facility
Crustaceans	NO	NO	NO	Q3: Is there a risk of adventitious cross contamination
Eggs	NO	NO	NO	Q3. 15 there a risk of advertitious cross containination
Fish	NO	NO	NO	
Peanuts	NO	NO	NO	Adventitious cross contamination can occur especially when
Soyabeans	NO	NO	YES	handling foreign wheat. Transportation (vessels, trains,
Milk	NO	NO	NO	road haulage), port storage and conveying systems could
Nuts (i.e. almonds, hazelnuts)	NO	NO	NO	be handled with other combinable crops. Measures are in
Celery	NO	NO	NO	place to reduce any adventitious contamination within the
Mustard	NO	NO	NO	supply chain and Heygates employ the services of a port
Sesame	NO	NO	NO	superintendent to check previous loads and to take samples
Sulphur dioxide & sulph^ >10mg/l	NO	NO	NO	of incoming wheat. The wheat cleaning screens room
Lupin	NO	NO	NO	should extract seeds and grains based on density and size.
Molluscs	NO	NO	NO	

	Nu	tritional In	formation (per 100g)	
	Water (g)	11.0	* Magnesium (mg)	23.0
(0	Total Nitrogen (g)	1.6	Phosphorus (mg)	114.0
ŏ'	Protein (g)	8.0	* Iron (mg)	1.9
I ≒	Fat (g)	1.4	Copper (mg)	0.2
Source	Av Carbohydrate (g)	80.9	Zinc (mg)	0.7
ı	Energy (kcal)	348.0	* Chloride (mg)	143.0
	Energy (KJ)	1482.2	* Manganese (mg)	23.0
<u> </u>	Starch (g)	80.3	Selenium (ug)	3.0
McCance & Widdowsons	Total Sugars (g)	0.6	Iodine (ug)	TR
	Gluc (g)	TR	Retinol (ug)	0.0
\mathcal{C}	Fruct (g)	TR	Carotine (ug)	0.0
8	Sucr (g)	0.5	Vitamin D (ug)	0.0
×-	Saturates (g)	0.4	Vitamin E (mg)	0.6
≥	Malt (g)	0.1	Thiamine B1 (mg)	0.3
<u> </u>	Lact (g)	0.0	Riboflavin B2 (g)	0.1
l do	Dietary Fibre (g)	3.4	Niacin (mg)	1.7
Ĭ	Satd (g)	0.4	Tryptophan/60 (mg)	2.0
S	Mono-unsatd	0.2	Vitamin B6 (mg)	0.2
n	Poly-unsatd (g)	0.2	Vitamin (B12 (ug)	0.0
S	Trans (g)	TR	Folates (ug)	16.0
	Cholest-erol (mg)	0.0	Pantothenate (mg)	0.4
	Sodium (mg)	2.0	Biotin (ug)	2.0
	Potassium (mg)	175.0	Vit C (mg)	0.0
	Calcium (mg)	96.0	* = Calculated values	
			•	

Suitable For		Pest Control
vo-lacto vegetarians	Yes	No. of routine visits 52
egans	Yes	No. of technical insp 4
Coeliacs	No	Scope of pest Control:
Kosher approved	No	Rodent & SPI plus 24hr call out
	No	Contractor:
		Check Pest Control, Reading, Berkshi

Wheat can be sourced from:

UK, Poland, Germany, USA, Canada,
France

UK, Poland, Germany, USA, Canada,
Vit B3: India / China

Vit B1: China

UK= United Kingdom; GER= Germany; CAN= Canada; USA = North America; FR= France

Heygates Food Safety Policies

Genetic Modification

At this time no genetically modified wheat has been authorised in the EU for commercial cultivation, nor for import into the EU. NABIM (The National Association of British and Irish Millers) continue to monitor the developments in the areas of labelling and patenting of agricultural food products derived from GMO's and keep its members informed of any developments. Regulations (EC) 1139/98 and 49/2000, and the new regulations (EC) 1829/2003 and 1830/2003 on the compulsory labelling in foodstuffs of products derived from GMO's, do not apply and additional specific labelling is not required.

Nut Policy

Heygates Ltd do not process any nut or seed products at any of our flour production facilities. Flour is produced in a sealed system and conveyed by means of an enclosed pneumatic pipe to bulk storage where it can either be discharged into dedicated bulk flour tankers or packed into flour sacks.

COSHH

1: Product: K1

Details below are for wheat flour - the worse case scenario

2: Composition/Information on Ingredients

Wheat Flour is produced by milling cleaned wheat grain or endosperm of cleaned wheat grain.

Flour is mainly used in the manufacture of bread, biscuits, confectionery, other foodstuffs and for various industrial purposes.

3: Hazards Identification

This product is not classified as hazardous to health according to EC directive.

8hr TWA STEL

MEL(maximum exposure limit) 10mg/m3 30mg/m3

In normal use wheat flour does not present a serious health risk and ingestion has no adverse effects. To comply with the Control of Substances Hazardous to Health Regulations and the assigned MEL, and for general health reasons outlined below, it is necessary to reduce so far as reasonably practicable personal exposure to any dust through enclosure, ventilation and the provision and use of personal protective equipment.

4: First Aid Measures

Inhalation: Flour dust may cause asthmatic reactions in a small proportion of susceptible employees. Remove affected person from area of exposure preferably into fresh air. Anyone who has asthmatic symptoms from an exposure to dust should seek medical advice. The symptoms normally disappear if the sufferer avoids further exposure.

Eyes: Flour dust may cause discomfort and the eyes should be washed with running water. Medical advice should be sought if the discomfort persists.

Skin: Flour can have a drying effect on the skin. For hygiene reasons it should be cleaned from broken skin to reduce risk of infection. There should be no adverse response from exposure to skin. It is only very rarely, if ever, the cause of dermatitis (see 8. Exposure and Controls below).

5: Fire Fighting Measures

Extinguish with Water(Red) or Foam (Cream).

Extinguish with Powder(Blue) should there be an electrical risk or electrical fire, when water and foam should not be used.

Extinguish with Foam(Cream) or Powder if burning liquids are involved.

Use of CO2 (Black), particularly large trolley-mounted extinguishers, may incur risk of generating an ignitable dust cloud.

6: Accidental Releases

Flour should be swept up, do not allow to enter drainage system, do not hose down.

Vacuum cleaners must be spark free and earthed. Vacuuming is the preferred method of cleaning. Brushes should preferably be of the type with coloured nylon bristles.

Compressed air is not suitable for cleaning jobs. It is dangerous and it spreads the problem to areas which are harder to clean and possibly into unexpected sources of ignition.

7: Handling and Storage

In bulk, flour should be stored at ambient temperatures in dry bins. Bagged flour should be stored in cool, dry conditions. Flour is usually supplied either by bulk tanker or in paper bags.

Static Electricity: The pneumatic intake of flour from bulk tankers can give rise to static electricity. Accordingly it is essential for blowlines to be earthed; suitable earthing points must be provided at the discharge point.

Manual Handling: All manual handling operations, including those involving flour bags, should be the subject of risk assessment appropriate to the environment and the physical characteristics of the handlers.

8: Exposure and Controls

Dust formation should be minimised during handling to prevent inhalation and skin contact. Overalls and dust respirators are recommended when handling loose materials. Spillages should be removed without delay to maintain hygiene standards and to minimise the level of dust in the atmosphere. Vacuum cleaning should be used wherever possible. It is unusual for contact with clean flour dust to cause dermatitis however high standards of personal hygiene should be maintained to avoid the possibility of dermatitis or product contamination.

9: Physical and Chemical Properties

White free flowing powder.

Particle Size

Will vary with flour type. E.g., in white flour a large majority of particles will be smaller than 150 microns, 50% of particles being smaller than 50 microns. For fine cake flours, about 50% of particles will be below 25 microns. In wholemeal flour, some particles will be greater than 300 microns.

Specific Heat

0.42 J/am C.

Explosive Concentrations

Above 50g/m2. (Upper explosive limit concentrations are not well defined for combustible dusts.)

Ignition Temperatures

A cloud of flour in air can be ignited by surfaces at temperatures of about 400OC. Layers of flour on a hot surface can smoulder at around 200OC, leading to flame and ignition.

Kst Values

Comprehensive tests on flours indicate a range between 74 and 120 bar m/s, depending on the flour type, particle size and moisture content. (The limit for the least severe class of explosible dusts, St1, is 200 bar m/s and this figure is often used for determining suitable vent size.)

Density

Usually between 450 and 560 kg/m3.

10. Fire and Dust Explosion Hazards

Like most organic materials, flour dust is flammable. Although not especially combustible, in certain conditions flour can form dust clouds which, if ignited, can lead to a dust explosion. The following precautions should therefore be taken:

• Adequate extraction facilities should be provided in all areas subject to dust, • Care should be taken to prevent the formation of dust clouds in storage and conveying plant, • Potential sources of ignition should be avoided, • Silos and appropriate equipment, including blowlines, should be earthed to prevent ignition by electrostatic discharge, • Adequate explosion prevention or protection should be fitted to silos and other appropriate equipment, • Smoking must be prohibited near storage and handling areas, • Build-up of dust on beams and ledges – representing a potential dust cloud if dislodged - should be prevented, • Electrical equipment should be of the type suitable for flammable dusts

Further advice on this matter is contained in the technical data below and in "The Prevention of Dust Explosions in Flour Mills and Bulk Flour Containers", available from NABIM.

11. Toxicological Information

This product is non-toxic.

Ingestion: Safe for human ingestion.

Inhalation: Repeated exposure may cause sensitisation and asthma (see 8. Exposure and

control)

Eye: May cause discomfort as a foreign body/matter.

Skin: Slight drying of skin. May cause dermatitis in rare cases

12. Ecological Information

None available at this time

13. Disposal Considerations

Dispose of according to national and local regulations.

14. Transport Considerations

This product is not classified as dangerous goods.

15. Regulatory Information

The product is produced so as to comply with the prevailing requirements of the Food Safety Act and the Bread and Flour Regulations.

EH 40 Risk Phrases: none EH 40 Safety Phases: none

16. Other Information

Under Coshh Regulations the user is under a legal obligation to carry out sultable and sufficient assessment of the health and safety risks which this material may present.

Reference should be made to:

Occupational Exposure Limits EH40/current year

Preventing Asthma at Work L55

Handling of Combustible Dusts HSE 103

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of issue below. The information is for guidance in safe handling, use, storage, transportation, disposal and release and is not in itself a warranty or quality specification. The information relates only to the products identified. This Material Safety Data Sheet may not be valid for such product used in combination with other substances or processes which must be assessed separately.

HACCP - Process Flow Diagram

